	Application No.	Applicant(s)	
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Notice of Allowability	10/636,114	CHATURVEDI ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Cam N Nguyen	1754	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT IS of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in (5) or other appropriate common (7) or other appropriate common (7) or other application is some (8) and MPEP 1308.	n this application. If not included unication will be mailed in due cousubject to withdrawal from issue a	irse. THIS t the initiative
 This communication is responsive to <u>a divisional application</u> The allowed claim(s) is/are 9-19 (which have been renum 	ion of 10/165,065 (now US P	at. 6,656,873). e a telep	hone
2. The allowed claim(s) is/are 9-19 (which have been renum	<u>obered 1-11)</u> .	munication on 5	10/orf.
3. The drawings filed on are accepted by the Examin	er.		
 4. Acknowledgment is made of a claim for foreign priority to a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 1. Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subtracted in the substance of the priority of	we been received. We been received in Application ocuments have been received. We of this communication to file MENT of this application. Initted. Note the attached EXAMPLE reason(s) why the oath of the submitted. In the submitted of the submitted of the submitted. In the header according to 37 CF osit of BIOLOGICAL MATION.	on No d in this national stage application a reply complying with the require AMINER'S AMENDMENT or NOT r declaration is deficient. v (PTO-948) attached r in the Office action of the drawings in the front (not the back 1.121(d). ERIAL must be submitted. Note	ements ICE OF
 Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 12/29/03 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. 🛛 Interview S Paper No. (08), 7. 🖾 Examiner's	formal Patent Application (PTO-1 ummary (PTO-413), Mail Date <u>5/10/</u> 01/ Amendment/Comment Statement of Reasons for Allowa 	,
		Campange	n,

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)

Notice of Allowability

Part of Paper No./Mail Date 2004050

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with *Ms. Marcella M. Bodner* on *May 10, 2004*.

2. The application has been amended as follows:

In the Claims

Claim 11, line 2, a comma --, -- has been inserted after "depositing".

Claim 11, line 2, a comma -- , -- has been inserted after "other".

Claim 12, line 2, "accomplished" has been changed to --carried out--.

Claim 13, line 2, "accomplished" has been changed to --carried out--.

Claim 14, last line, the second period "." has been deleted.

Claim 16, line 2, "done" has been changed to --carried out--.

Claim 17, line 1, --according to claim 10-- has been inserted after "nitrile".

Claim 17, line 2, "done" has been changed to --carried out--.

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance:

As concern with claims 9 & 16, the prior art does not disclose or fairly suggest a

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process for producing an unsaturated carboxylic acid using a catalyst produced by a process as recited in claim 9. While processes of producing mixed metal oxide catalyst compositions are known in the art, a process <u>requiring</u> vapor depositing at least one dopant metal onto the surface of a mixed metal oxide catalyst having the empirical formula $A_aD_bE_cX_dO_e$ satisfying a, b, c, d, and e (as specified in claim 9) distinguishes over the prior art of record.

As concern with claims 10 & 17, the prior art does not disclose or fairly suggest a process for producing an unsaturated nitrile using a catalyst produced by a process as recited in claim 10. While processes of producing mixed metal oxide catalyst compositions are known in the art, a process requiring vapor depositing at least one dopant metal onto the surface of a mixed metal oxide catalyst having the empirical formula $A_aD_bE_cX_dO_e$ satisfying a, b, c, d, and e (as specified in claim 10) distinguishes over the prior art of record.

As concern with claims 11-13, the prior art does not disclose or fairly suggest a process for preparing a catalyst <u>requiring</u> vapor depositing, one upon the other, a plurality of thin films, each thin film containing at least one of the elements A, D, E and X to form a composite of A, D, E and X.

As concern with claim 14, the prior art does not disclose or fairly suggest a process for preparing a catalyst <u>requiring</u> vapor depositing, one upon the other, a plurality of thin films, each thin film containing at least one of the elements Mo, V, Nb and X to form a composite of Mo, V, Nb and X.

As concern with claim 15, the prior art does not disclose or fairly

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suggest a process for preparing a catalyst <u>requiring</u> vapor depositing, one upon the other, a plurality of thin films, each thin film containing at least one of the elements Mo, V, Te and X^1 to form a composite of Mo, V, Nb and X^1 .

As concern with claim 18, the prior art does not disclose or fairly suggest a process for producing an unsaturated carboxylic acid using a catalyst produced by a process as recited in the claim, which <u>requires</u> vapor depositing, one upon the other, a plurality of thin films, each thin film containing at least one of the elements A, D, E and X to form a composite of A, D, E and X.

As concern with claim 19, the prior art does not disclose or fairly suggest a process for producing an unsaturated nitrile using a catalyst produced by a process as recited in the claim, which <u>requires</u> vapor depositing, one upon the other, a plurality of thin films, each thin film containing at least one of the elements A, D, E and X to form a composite of A, D, E and X.

There is no motivation to combine the teachings of the references together.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Citations

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Chaturvedi et al. (US Pat. 6,624,111 B2), Chaturvedi et al. (US Pat. 6,504,053 B1), Bogan, Jr. et al. (US Pat. 6,710,207 B2), Bogan, Jr. (US Pat. 6,472,552 B1), Karim et al. (US Pat. 6,531,631 B1), Karim et al. (US Pat. 6,258,992 B1), Karim et al. (US Pat. 6,143,921), Tu et al. (US Pat. 6,512,141 B2), Jachow et al. (US Pat. 6,541,664 B1), Kayou et al. (US Pat. 6,166,241), Lin et al. (US Pat. 6,180,825 B1), Yamamatsu et al. (US Pat. 5,191,116), Kitson (US Pat. 5,210,293), & Neumann et al. (US Pat. 5,449,821) are cited for related art.

Conclusion

- 5. Claims 9-19 are originally pending in the application. Claims 9-19 are allowed.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Cam Nguyen, whose telephone number is (571) 272-1357. The examiner can normally be reached on M-F from 8:30 am. to 6:00 pm, with alternative Monday off.

The appropriate fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to telephone number (571) 272-1700.

Cam Nguyen

Nguyen/cnn (A)

Primary Examiner

May 10, 2004

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